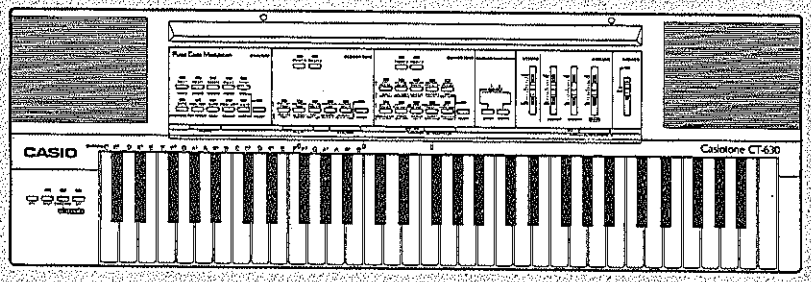
Casiotone CT-630

ELECTRONIC MUSICAL INSTRUMENT
INSTRUMENTO MUSICAL ELECTRONICO

OPERATION MANUAL 2
MANUAL DE OPERACION 28



英 西

Casiotone CT-630

ELECTRONIC MUSICAL INSTRUMENT

Introduction

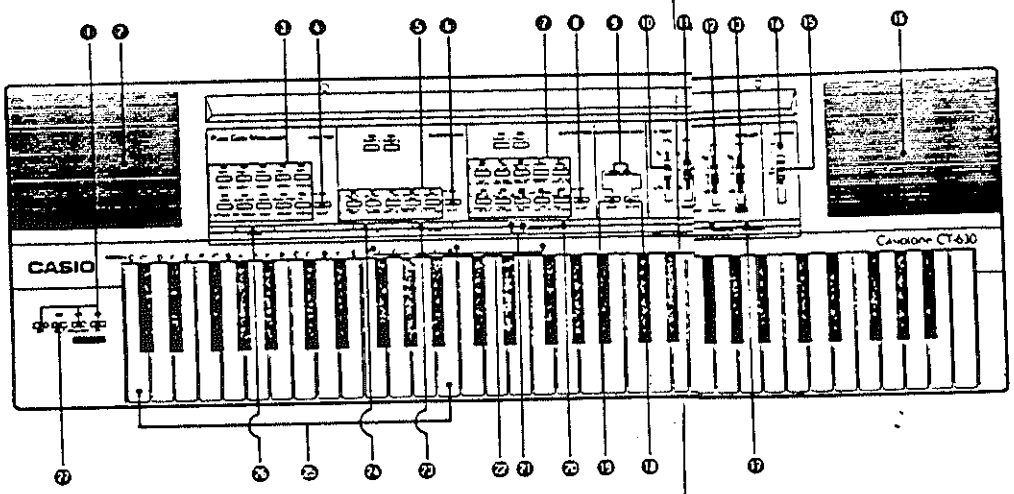
Congratulations upon your selection of a Casiotone CT-630. The CT-630 is state-of-the-art musical instrument which incorporates the latest electronics technology to make its operation as easy as possible. Exceptional sound quality backed up by a host of sophisticated features and functions makes the CT-630 a joy to play for everyone.

In order to enjoy the features and functions of the CT-630 to their fullest, be sure to carefully read this manual and follow the instructions contained herein.

Contents

1. General Guide 4
2. Power Supply 7
3. General Operation 9
4. Preset Tone 11
5. Auto-rhythm 12
6. Auto-accompaniment 14
7. Chord/Operation Memory 18
8. MIDI 20
9. Troubleshooting 22
10. Care of Your Unit 23
11. Specifications 24

General Guide



1. Casio Chord buttons
2. Built-in speaker (Left)
3. Rhythm selectors
4. Select button
5. Accompaniment tone selectors
6. Select button
7. Preset tone selectors
8. Select button
9. Chord/operation memory indicators
10. Tempo control
11. Accompaniment volume control
12. Rhythm volume control
13. Main volume control
14. Power indicator
15. Power switch
16. Built-in speaker (Right)
17. Auto-harmonize button
18. Record key
19. Chord/operation select key
20. Start/stop button
21. Tempo indicators
22. Split point indicators
23. Synchro button
24. Fill-in button
25. Accompaniment keyboard
26. Ending button
27. Split button

(Rear panel)

㉘ MIDI terminals

㉙ Tuning control
Adjusts the pitch of the entire keyboard within ±1/4 tones (±50 cents) and provides easy tuning with other instruments.

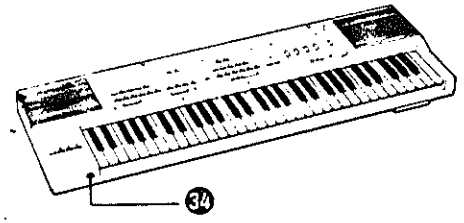
㉚ Sustain jack
For connection of a sustain pedal (SP-1, optional).

㉛ Foot volume jack
For connection of a foot volume control pedal (VP-2, optional).

㉜ Output jack
For connection to keyboard amplifiers, external speakers, audio equipment, etc.

㉝ AC adaptor jack
For connection of AC adaptor (AD-5, optional) or car adaptor (CA-5, optional).

㉞ Headphone jack
For connection of optional headphones (CP-2). Output from the speakers is automatically cut when headphones are connected.



2 Power Supply

This unit operates on both AC and DC power.

DC Power

•Dry batteries

This unit can be powered by six D size (SUM-1) manganese dry batteries. Weakened batteries will result in lower volume or poor tonal quality. The power indicator lamp will gradually lose its brightness when battery power weakens. At this time, change batteries or shift to one of the alternate power sources mentioned below.

Battery replacement:

① Open the battery compartment cover on the bottom of the unit and take out used batteries.
② Load new batteries taking care that polarity is correct.

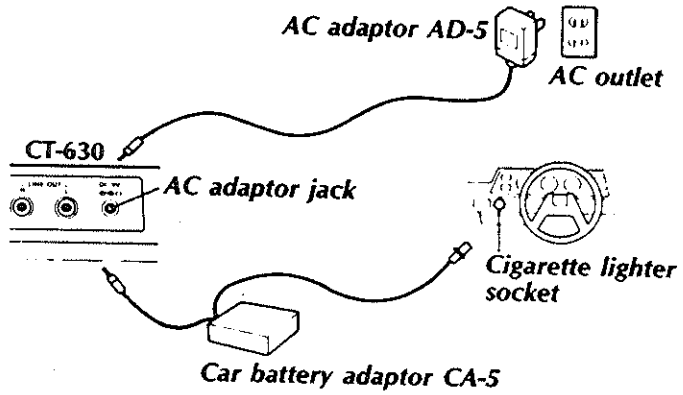
** It is advisable to replace all six batteries at the same time for longer battery life.*
** Refer to the specifications for standard battery life.*

•Car battery

With the car battery adaptor (CA-5, optional), DC power is supplied from a car battery through the cigarette lighter socket.

AC Power

An AC adaptor (AD-5, optional) is required to connect to an AC outlet. Use only an adaptor with the same voltage rating (100, 117, 220, or 240V) as the power supply in your area to prevent component damage. Plug the AC adaptor into the AC outlet and the cord into the unit. This will automatically cut off the battery power supply.



★Auto power off function

Power is automatically cut off approximately 6 minutes after the last operation of the unit. Power supply can be restored by switching power OFF and then ON again.

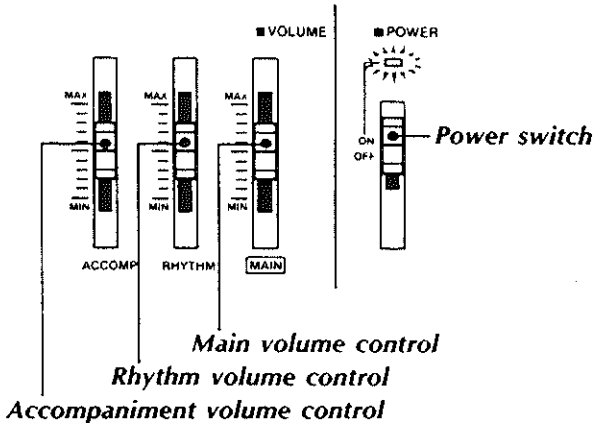
CAUTION

* Use only genuine CASIO adaptors to avoid risk of damage.
* Remove batteries from the battery compartment when the unit is not used for extended periods. (Battery leakage can damage electrical parts.)
* The adaptor may become warm when left connected to an outlet. This is normal, but the adaptor should be disconnected when not in use.
* THE FOLLOWING CONDITIONS CAN CAUSE BATTERIES TO BURST:

1. Use of adaptors other than genuine CASIO adaptors.
2. Loading batteries with polarities reversed.

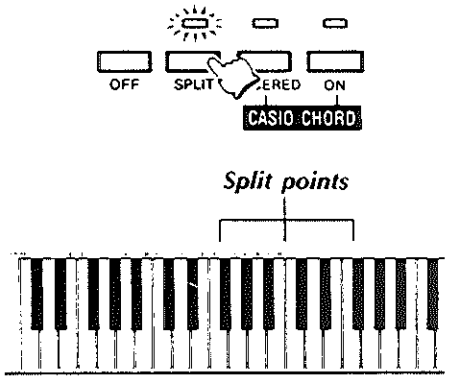
3 General Operation

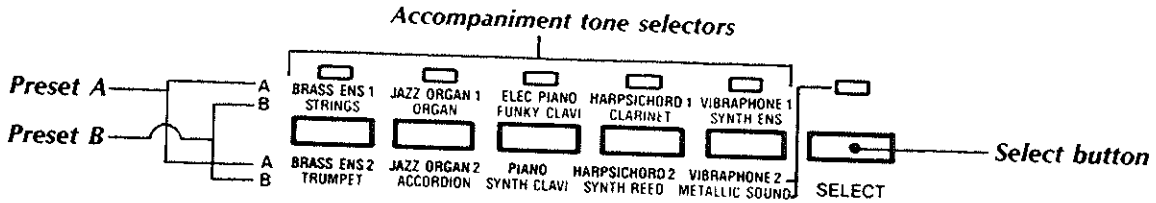
① Power switch on.
② Adjust the volume level.
③ Select one of 40 instrument tones.(Refer to page 11.)
④ Now, start playing.



•Changing keyboard split point

The CT-630 features 3 different keyboard split points, which are indicated by red LEDs. The split point can be altered by pressing the SPLIT key after the corresponding SPLIT mode is selected.



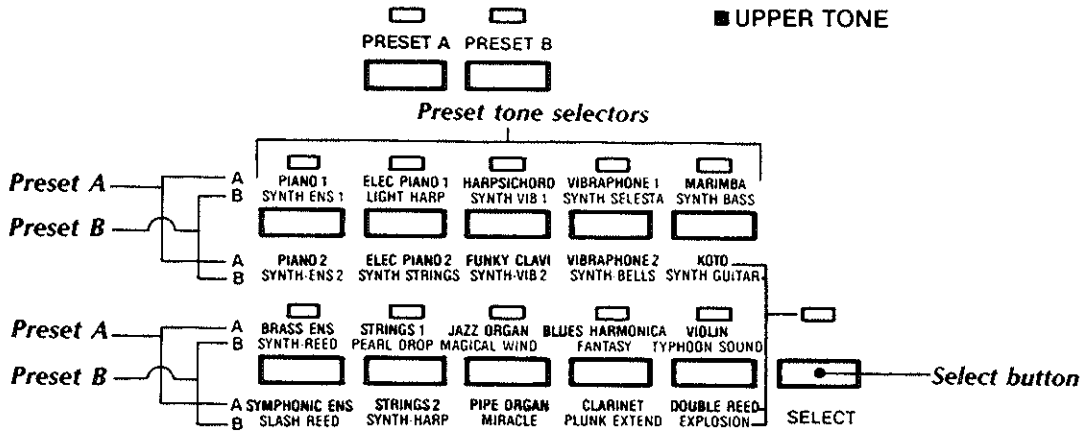


•Selecting an accompaniment tone

① Choose PRESET A group or PRESET B group.

② Press the Accompaniment tone selector to choose the desired accompaniment tone. When the select button is ON, the tones marked below the selectors can be selected. When the select button is OFF, the tones marked above the selectors can be selected.

4 Preset Tone

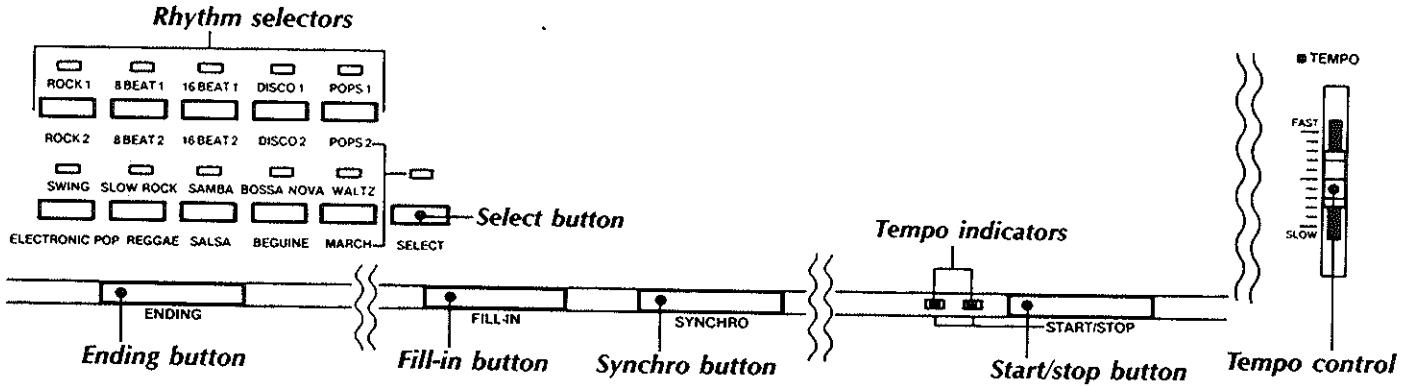


•Selecting a preset tone

① Choose PRESET A group or PRESET B group.

② Press the Preset tone selector to choose the desired tone. When the select button is ON, the tones marked below the selectors can be selected. When the select button is OFF, the tones marked above the selectors can be selected.

5 Auto-rhythm

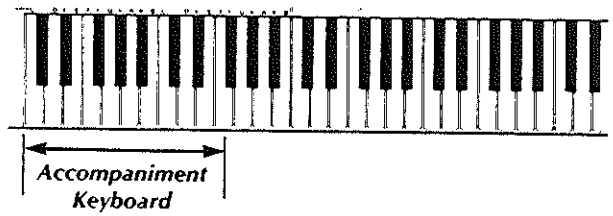


•Selecting an auto-rhythm
Use the rhythm selectors to choose the desired rhythm. When the select button is ON, the rhythm marked below the selectors can be selected. When the select button is OFF, the rhythms marked above the rhythm selectors can be selected.

•Start/stop button
Press to start or stop rhythm.

•Fill-in button
Inserts fill-in (different rhythm pattern) to the rhythm accompaniment.

•Synchro button
Press to enter the synchro start standby status. Rhythm starts when an accompaniment keyboard key is pressed.



- **Tempo control**
  Adjust the tempo of auto-rhythm and auto-accompaniment.

- **Ending button**
  Press to insert an ending pattern at the end of a tune.

6 Auto-accompaniment

•Casio Chord buttons

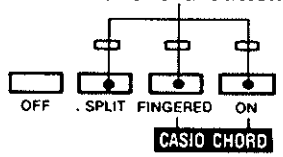
Turns auto-accompaniment ON and OFF.

OFF .....For normal play without auto-accompaniment.

FINGERED .....For auto-accompaniment pressing chords as usual.

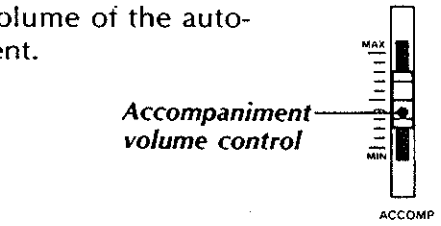
ON .....For auto-accompaniment using the Casio Chord system.

Casio Chord buttons



•Accompaniment volume control

Adjusts the volume of the auto-accompaniment.



Accompaniment volume control

•Selecting an accompaniment tone

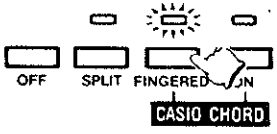
① Choose PRESET A group or PRESET B group.

② Press the Accompaniment tone selector to choose the desired accompaniment tone. When the select button is ON, the tones marked below the selectors can be selected. When the select button is OFF, the tones marked above the selectors can be selected.

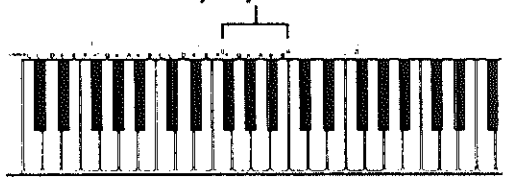
•Changing split point

The split point can be altered by pressing the FINGERED or ON key after the corresponding Casio chord LED is already lit.

NOTE: The split point can be set at point I or II only when the Casio Chord System is being used.

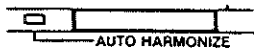


Split points



- **Auto-harmonize**

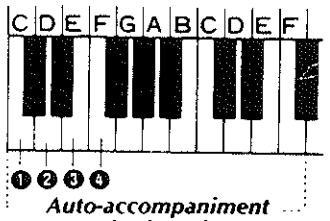
  When the auto-harmonize button is ON, using the accompaniment keyboard and playing melody causes the tones which make up the chords played to harmonize with the melody notes.



Casio Chord System

The Casio Chord system has been developed so you can play the four main types of chords more easily. Playing of the chords is simplified as shown below:

- Pressing one of the accompaniment keyboard keys produces a major chord corresponding to that note.
- Simultaneously pressing any key to the right (two keys at the same time) results in a minor chord.
- Similarly, pressing one more key to the right (three keys in all) produces a seventh chord, and pressing the fourth key to the right (four keys in all) creates a minor seventh chord.

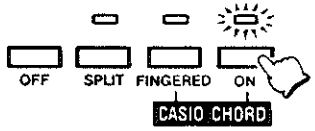


(Example)

C (C major chord)—Press ❶.
Cm (C minor chord)—Press ❶, ❷ together.
C7 (C seventh chord)—Press ❶, ❷, ❸ together.
Cm7 (C minor seventh chord)—Press ❶, ❷, ❸, ❹, together.
** Not only ❷, ❸ and ❹, but any black or white keys can be used as long as they are to the right of ❶.*

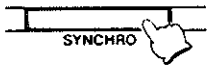
[1] Auto-accompaniment using the Casio Chord system (one-finger method)

① Press the Casio Chord "ON" button.



② Select one of the auto-rhythms and press the synchro button.

** Tempo indicator lights, meaning that the accompaniment keyboard keys are ready for play.*

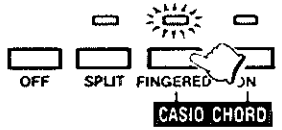


③ Play on the accompaniment keyboard keys according to the Casio Chord system.

** Adjust the tempo and accompaniment volume using the respective controls.*

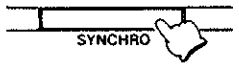
[2] Auto-accompaniment playing chords as usual.

① Press the Casio Chord "FINGERED" button.



② Select one of the auto-rhythms and press the synchro button.

** Tempo indicator lights, meaning that the accompaniment keyboard keys are ready for play.*



③ Play a chord on the accompaniment keyboard keys.

** Adjust the tempo, accompaniment volume using the respective controls.*

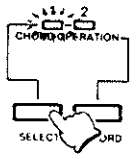
7 Chord/Operation Memory

The chord/operation memory function holds a two complete songs (1 or 2), each containing up to 640 chords, and up to 198 operations. "operations" refer to such things as changes in rhythm, tone, fill-ins and auto-harmonize ON/OFF.

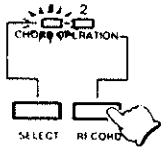
[How to program chord/operation memory]
The chord/operation memory is actually composed of two separate memories, a chord memory and an operation memory.

•Chord/operation memory programming

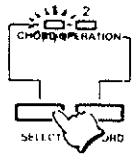
① Select the track to be programmed (1 or 2) via the select key. (LED lights.)



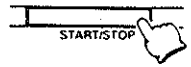
② Press the record key to enter the programming mode. (LED flashes.)



③ Select the memory to be programmed (chord or operation) via th select key.

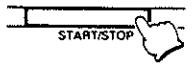


④ Press the start/stop key to begin rhythm track.

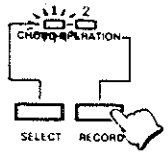


* *In this mode, programming has already begun. (After first four counts.) Program chord or operation memory via real-time operation, playing chords via Casio Chord, or performing desired operations.*

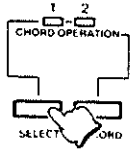
⑤ Press the start/stop key to end programming.



⑥ Press the record key once again to exit from programming mode. (LED lights).

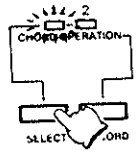


⑦ Press the select key to exit from chord/operation memory mode. (LED goes out.)

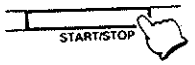


[How to playback chord/operation memory]

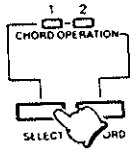
① Select the track to be played back (1 or 2) via the select key. (LED lights).



② Press the start/stop key to start the memory.



③ Press the select key to exit from chord/operation memory mode.

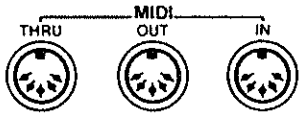


NOTES

- When programming chord memory, FINGERED or CASIO CHORD ON modes may be selected, along with either of the two keyboard split points. (After record key is pressed.)
- When programming operation memory, CASIO CHORD ON/OFF or FINGERED modes may be selected, along with either of the two keyboard split points. (After record key is pressed.)
- Program stops at the point where operation memory is ended, taking precedence over chord memory.
- Memories should be cleared by pressing stop during precount (first four counts of program)before entering new programs in memory.
- At playback, settings are at initially written states. Lower tone keys do not sound when FINGERED or CASIO CHORD ON have been specified.
- Select key and record key do not function when sustain pedal in ON.
- When memory capacity is exceeded, rhythm stops and 2 LEDs of tempo indicator light together. Press the start/stop key or record key to exit from this state.

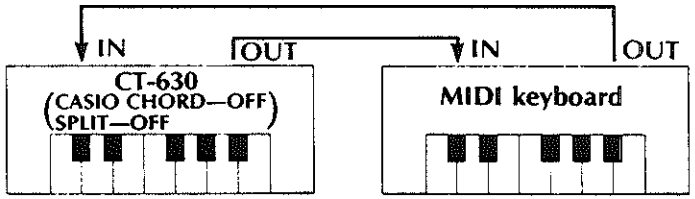
8 MIDI

"MIDI" stands for "Musical Instrument Digital Interface." Practically speaking, it allows connection and synchronized performance via electronic musical instruments such as synthesizers, drum machines and sequencers, and even personal computers. The CT-630 features 4 basic MIDI modes:

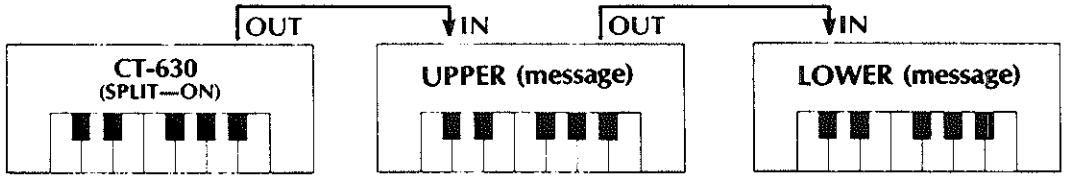


MIDI IN ..... Receives MIDI signal from external device.
MIDI OUT..... Sends MIDI signal to external device.
MIDI THRU..... Passes unchanged signal recived from one device through MIDI IN to another device.

(MIDI mode A)
Sends/Receives MIDI messages as a single keyboard (8-note poly).
<EXAMPLE CONNECTION>

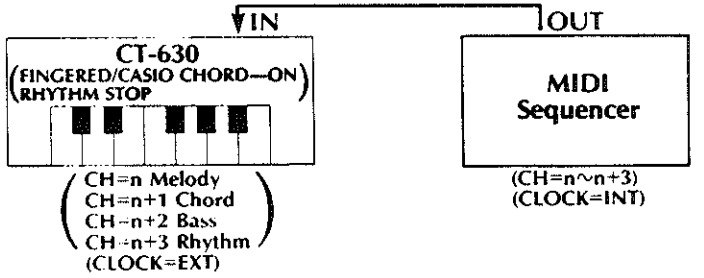


(MIDI mode B)
Sends/Receives MIDI messages for upper and lower keyboard (4-note poly each).
<EXAMPLE CONNECTION>



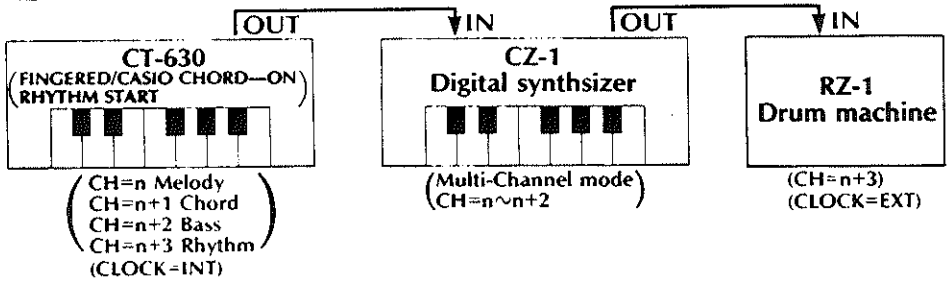
(MIDI mode C)
Splits keyboard into 3 sections, a 4-note poly section, a 3-note poly section and a mono section for use as a multiple sound source.

<EXAMPLE CONNECTION>



(MIDI mode D)
Sends multiple MIDI messages for both Accompaniment Pattern and Melody performance (for use as a backing sequencer).

<EXAMPLE CONNECTION>



** MIDI channel number is fixed to channel 1.*

** MIDI clock mode is fixed to INTERNAL.*

9 Troubleshooting

**For any malfunction, always check battery condition first. (See page 7)*

Trouble	Possible Cause	Remedy
No sound, even if keys are pressed.	1. Main volume turned down. 2. Headphones connected.	1. Turn up main volume. 2. Disconnect headphones.
No rhythm.	Rhythm volume turned down.	Turn up rhythm volume.
No accompaniment.	Main and accompaniment volume turned down.	Turn up main and accompaniment volume.
Occasional interference.	Refrigerators, washing machines and similar electric appliances.	Use outlet as far away as possible from applicance thought to be the cause.
No sound when connected to external amplifier.	1. Main volume turned down. 2. Defective connection cord.	1. Turn up main volume. 2. Replace connection cord.

10 Care of Your Unit

1. **Avoid heat, humidity, and direct sunlight.**
   Do not overexpose the unit to direct sunlight, place it near a heater, or in any area subject to high temperature.

2. **Avoid severe impacts and do not drop.**
   Severe impacts can result in malfunction. When carrying or transporting the unit, protect the keyboard and buttons by packing with soft cloth.

3. **Keep the unit free of liquids, dust, particles, etc.**
   Do not allow foreign matter to enter between the keys. Be especially careful of metallic objects such as hairpins, sewing needles or coins. Also, do not allow the unit to get wet.

4. **Never attempt to modify any part of the unit.**
   Your keyboard is a precision musical instrument made up of sophisticated electronic parts. Any modification of, or tampering with internal components can cause trouble or malfunction.

5. **Do not use lacquer thinner or similar chemicals for cleaning.**
   Clean the keyboard with a soft cloth dampened with a mild detergent solution. Soak the cloth in the detergent solution and squeeze it until almost dry.

6. **Remove batteries before extended storage.**
   Batteries left in the unit for long periods can leak and cause damage to electronic circuitry.

7. **In case of malfunction...**
   Check whether buttons and connections are set correctly as indicated in the troubleshooting chart of page 22 of this manual. If the unit still does not work properly, contact the original retailer or a nearby dealer. Never attempt to repair the unit yourself. This can result in serious damage of the components.

Specifications

Model:	CT-630
Number of keys:	61 keys
Polyphonic:	8-note
Preset tones:	(Upper) 40 Piano 1, Elec. piano 1, Harpsichord, Vibraphone 1, Marimba, Brass ens., Strings 1, Jazz organ, Blues harmonica, Violin, Piano 2, Elec. piano 2, Funky clavi., Vibraphone 2, Koto, Symphonic ens., Strings 2, Pipe organ, Clarinet, Double reed, Synth. ens 1, Light harp, Synth. vib 1, Synth. celesta, Synth brass, Synth. reed, Pearl drop, Magical wind, fantasy, Typhoon sound, Synth. ens 2, Synth. strings, Synth. vib 2, Synth. bells, Synth. guitar, Slash reed, Synth. harp, Miracle, Plunk extend, Explosion (Lower) 20 Brass ens 1, Jazz organ 1, Elec. piano, Harpsichord 1, Vibraphone 1, Brass ens 2, Jazz organ 2, Piano, Harpsichord 2, Vibraphone 2, Strings, Organ, Funky clavi, Clarinet, Synth. ens, Trumpet, Accordion, Synth. clavi, Synth. reed, Metallic sound
Auto-rhythm:	20 Rock 1, 8 Beat 1, 16 Beat 1, Disco 1, Pops 1, Swing, slow rock, Samba, Bossa nova, Waltz, Rock 2, 8 Beat 2, 16 Beat 2, Disco 2, Pops 2, Electronic pop, Reggae, Salsa, Beguine, March
Auto-accompaniment function:	Casio Chord ON/OFF, Fingered

Effect:	Key split, Auto harmonize
Chord/Operation memory:	Chord memory—640 chords MAX. ×2 banks. Operation memory—198 settings MAX. ×2 banks.
Terminals:	Line out (Output impedance 3 KΩ, Output voltage 1 V (RMS) MAX.) Phones ×1, Foot volume ×1, AC adaptor (DC 9 V), Sustain ×1, MIDI (IN, OUT, THRU)
Tuning control:	±50 cents (±1/4 tones)
Built-in speakers	12 cm dia. ×2 (output: 2 W + 2 W)
Auto power off function:	6 minutes after last operation
Power source:	3-way AC/DC power source; • AC: 100, 117, 220 or 240V (±10V), 50/60 Hz, with optional AC adaptor AD-5. • DC: 6 D size manganese dry batteries. Battery life: Approximately 10 hours (SUM-1). • Car battery: Power taken via optional car adaptor CA-5.
Power consumption:	9 W
Dimensions:	980(W) × 320(D) × 91(H) mm 38-3/5"(W) × 12-3/5"(D) × 3-3/5"(H)
Weight	7 kg (15.4 lbs) including batteries
Standard accessories:	6 "D" size batteries, Dust cover, Music Stand

**Design and specifications subject to change without notice.*

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (not applicable to other areas).

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

.....reorient the receiving antenna
.....relocate the equipment with respect to the receiver
.....move the equipment away from the receiver
.....plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.